

## Product datasheet for TP316443

### Presenilin 1 (PSEN1) (NM\_000021) Human Recombinant Protein

#### Product data:

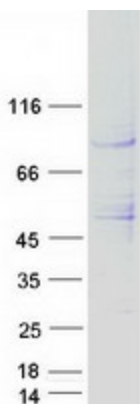
|                                       |  |
|---------------------------------------|--|
| Product Type:                         | Recombinant Proteins   |
| Description:                          | Recombinant protein of human presenilin 1 (PSEN1), transcript variant 1, 20 µg   |
| Species:                              | Human  |
| Expression Host:                      | HEK293T  |
| Expression cDNA Clone or AA Sequence: | >RC216443 representing NM_000021<br><b>Red</b> =Cloning site <b>Green</b> =Tags(s)   |
|                                       | <p>MTELPAPLSYFQNAQMSEDNHLNNTVRSQNDNRERQEHNDRRSLGHPEPLSNRPGQNSRQVVEQDEEED<br/>EELTLKYGAKHVIMLFVPVTLCMWWWVATIKSVSFYTRKDGQLIYTPFTEDETETVGQRALHSILNAAIMI<br/>SVIVVMTILLVLYKYRCYKVIHAWLISSLLLLFFFSFIYLGVEFKTYNVAVDYITVALLIWNFGVVGM<br/>ISIHWKGPLRLQQAYLIMISALMALVFIKYLPEWTAWLILAVISVYDLVAVLCPKGPLRMLVETAQERNE<br/>TLFPALIYSSTMVWLVNMAEGDPEAQRVSKNSKYNNAESTERESQDTVAENDDGGFSEEWEAQRDShLGP<br/>HRSTPESRAAVQELSSSILAGEDPEERGVKLGDFIFYSVLVGKASATASGDWNTTIACFVAILIGLCL<br/>LLLLLAIFKKALPALPISITFGLVYFATDYLVPFMDQLAFHQFYI</p> <p><b>TRTRPLEQKLISEEDLAANDILDYKDDDDKV</b></p> |
| Tag:                                  | C-Myc/DDK  |
| Predicted MW:                         | 52.5 kDa   |
| Concentration:                        | >0.05 µg/µL as determined by microplate BCA method   |
| Purity:                               | > 80% as determined by SDS-PAGE and Coomassie blue staining  |
| Buffer:                               | 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol   |
| Preparation:                          | Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.   |
| Note:                                 | For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.   |
| Storage:                              | Store at -80°C.  |
| Stability:                            | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.  |
| RefSeq:                               | <u><a href="#">NP_000012</a></u>   |



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|                   |  |
|-------------------|--|
| Locus ID:         | 5663   |
| UniProt ID:       | <a href="#">P49768</a> , <a href="#">A0A024R6A3</a>  |
| RefSeq Size:      | 2763   |
| Cytogenetics:     | 14q24.2  |
| RefSeq ORF:       | 1401   |
| Synonyms:         | ACNINV3; AD3; FAD; PS-1; PS1; S182   |
| Summary:          | <p>Alzheimer's disease (AD) patients with an inherited form of the disease carry mutations in the presenilin proteins (PSEN1; PSEN2) or in the amyloid precursor protein (APP). These disease-linked mutations result in increased production of the longer form of amyloid-beta (main component of amyloid deposits found in AD brains). Presenilins are postulated to regulate APP processing through their effects on gamma-secretase, an enzyme that cleaves APP. Also, it is thought that the presenilins are involved in the cleavage of the Notch receptor, such that they either directly regulate gamma-secretase activity or themselves are protease enzymes. Several alternatively spliced transcript variants encoding different isoforms have been identified for this gene, the full-length nature of only some have been determined. [provided by RefSeq, Aug 2008]</p> |
| Protein Families: | Druggable Genome, Protease, Transmembrane  |
| Protein Pathways: | Alzheimer's disease, Neurotrophin signaling pathway, Notch signaling pathway, Wnt signaling pathway  |

### Product images:



Coomassie blue staining of purified PSEN1 protein (Cat# TP316443). The protein was produced from HEK293T cells transfected with PSEN1 cDNA clone (Cat# [RC216443]) using MegaTran 2.0 (Cat# [TT210002]).